

FEB 4 2000

400 Seventh Street, S.W. Washington, D.C. 20590

Research and Special Programs Administration

DOT-E 9894 (THIRD REVISION)

EXPIRATION DATE: November 30, 2001

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Luxfer Gas Cylinders

Riverside, CA

2. PURPOSE AND LIMITATIONS:

This exemption authorizes the manufacture, mark, sale and use of non-DOT specification fiber reinforced plastic (FRP) hoop wrapped (HW) cylinders conforming with all regulations applicable to the DOT FRP-2 Standard, except as specified herein, for the transportation in commerce of the materials authorized by this exemption.

- 3. <u>REGULATORY SYSTEM AFFECTED</u>: 49 CFR Parts 106, 107 and 171-180.
- 4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 178.35(f), 173.302(a)(1), 173.304(a),(d) and 175.3 in that the use of a non-DOT specification package is authorized.
- 5. <u>BASIS</u>: This exemption is based on the application of Luxfer Gas Cylinders dated October 28, 1999, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Division 2.2 gases under specific commodity names (Compressed air, argon, helium, nitrogen, and oxygen).	2.2	As appro- priate	N/A

7. SAFETY CONTROL MEASURES:

<u>PACKAGING</u> - Packaging prescribed is a non-DOT specification fiber reinforced plastic (FRP) hoop-wrapped (HW) cylinder made in full conformance with data provided by Luxfer Gas Cylinders (formerly Luxfer U.S.A. Limited) with their application on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in conformance with the requirements of DOT FRP-2 Standard, Revision 1 dated January 4, 1987 (Basic Requirements for Fiber Reinforced Plastic (FRP) Type 3HW Composite Cylinders) except as follows:

178.BB-5 Authorized material and identification of material.

(a) Aluminum liner must be 6061 alloy and T6 temper.

8. SPECIAL PROVISIONS:

- a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.
- b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

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- c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- d. Each packaging manufactured under the authority of this exemption must be marked with a <u>registration symbol</u> designated by the Office of Hazardous Materials Exemptions and Approvals <u>for a specific manufacturing facility</u>.
- e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.
- f. Cylinders manufactured under this exemption are not authorized for use fifteen (15) years after the date of manufacture.
- g. Use of these cylinders for underwater breathing is not authorized.
- h. Cylinders used in oxygen service must be in compliance with \$ 173.302(a)(5)(i) through (iv).
- i. Cylinders must be packaged in accordance with § 173.301 (k).
- j. Each cylinder must be reinspected and hydrostatically retested every three years in accordance with § 173.34(e) as prescribed for DOT 3HT cylinders, except that the rejection elastic expansion criteria does not apply, permanent volumetric expansion must not exceed 5 percent of total volumetric expansion at test pressure and retest dates must be steel stamped on the outer exposed metallic surface of the cylinder neck, or marked on a label securely affixed to the cylinder and over coated with epoxy. Reheat treatment or repair of rejected cylinders is not authorized.
- k. Transportation of flammable gas is not authorized aboard cargo vessel or passenger-carrying aircraft.
- 9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, passenger-carrying aircraft and cargo aircraft only.

- 10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
- 11. <u>COMPLIANCE</u>: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 <u>et seq</u>:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
 - o Registration required by § 107.601 <u>et seq.</u>, when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued at Washington, D.C.

Robert Al McGuire

Acting Associate Administrator for Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

Dist: USCG, FHWA, FAA, FRA

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